

RECEIVED  
NOV 09 1989

DIVISION OF  
OIL, GAS & MINING

BUREAU OF LAND MANAGEMENT  
MOAB DISTRICT

UT-060-3160-1  
(April 1984)

CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

Company William T. Bush Well No. Bush # 1  
Location: Sec: N4/12 Sec. 23 T. 19 S R. 10 E Lease No. U 56040  
Onsite Inspection Date \_\_\_\_\_

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to ensure compliance.

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

2. Estimated Depth at Which Oil, Gas, Water, or Other Mineral-Bearing Zones Are Expected to Be Encountered:

	<u>Formation</u>	<u>Depth</u>
Expected oil zones:	<u>Moenkopi</u>	<u>1050 ft.</u>
Expected gas zones:	<u>none</u>	_____
Expected water zones:	<u>none</u>	_____
Expected mineral zones:	<u>none</u>	_____

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth, cased and cemented. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment: S.O.P. will be checked by pressure  
method prior to drilling. Rotating head will also be used  
checked. Core-log diagram is enclosed.

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure-tested before drilling casing cement plugs. The Resource Area (will ~~will not~~) be notified 1 days in advance when pressure tests are to be conducted.

4. Casing Program and Auxiliary Equipment:

Surface: Drill 10" hole to 100 feet & set 7" - 23# and  
cement to surface.

Production: Drill 6 $\frac{1}{4}$ " hole & set 4 $\frac{1}{2}$ " - 9.5#.

Anticipated cements tops will be reported as to depth, not the  
expected number of sacks. The Resource Area (will ~~will not~~)  
be notified 1 days in advance when running casing  
strings and cement.

5. Mud Program and Circulating Medium: The well will be

drilled with air and air mist. Fifty barrels of mud will  
be on hand and ready for use in case it is needed to kill  
well or for logging operations.

Bloose line will be misted to reduce fugitive dust when air  
drilling.

6. Coring, Logging and Testing Program:

Drill stem tests are not planned at this time. I plan to run  
an Induction Log and drill samples will be caught at 10' in-  
tervals. No cores will be taken.

Whether the well is completed as a dry hole or as a producer,  
"Well Completion and Recompletion Report and Log" (Form 3160-4)  
will be submitted to the District Office not later than thirty  
(30) days after completion of the well or after completion of  
operations being performed, in accordance with 43 CFR 3164.  
Two copies of all logs, core descriptions, core analyses, well  
test data, geologic summaries, sample description, and all other  
surveys or data obtained and compiled during the drilling, work-  
over, and/or completion operations, will be filed with Form 3160-4.  
Samples (cuttings, fluids, and/or gases) will be submitted when  
requested by the Moab District Manager.

7. Abnormal Conditions, Bottom Hole Pressures and Potential

Hazards: No abnormal gas pressures or temperatures are  
expected. No hydrogen sulfide or other hazardous gases or  
fluids have been reported in the area.

8. Anticipated Starting Dates and Notifications of Operations:

The operator will contact the San Rafael Resource Area at Price, Utah, forty-eight (48) hours prior to beginning any dirt work on this location.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date (will/will not) be reported orally to the Area Manager within a minimum of twenty-four (24) hours prior to spudding. Written notification in the form of a Sundry Notice (form 3160-5) will be submitted to the District Office within twenty-four (24) hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329, "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed directly with the BLM District Office, P.O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergency situations, verbal approval to bring on a replacement rig will be approved by the District Petroleum Engineer.

Should the well be successfully completed for production, the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) business days following the date on which the well is placed on production.

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly-drilled dry holes or failures, and in emergency situations,

oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the District Manager within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The marker will be constructed as follows: \_\_\_\_\_

\_\_\_\_\_

The top of the marker will be closed or capped.

The following minimum information will be permanently placed on the marker with a plate, cap or beaded-on with a welding torch:

"Fed" or "Ind", as applicable. "Well number, location by 1/4 section, township and range". "Lease number".

Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B. THIRTEEN-POINT SURFACE USE PLAN

1. Existing Roads:

a. Location of proposed well in relation to town or other reference point: Fifteen miles East of Castledale, Utah.  
\_\_\_\_\_  
\_\_\_\_\_

b. Proposed route to location: Highway 10 then Easterly on County Road to Buckhorn Flat well and then Wedge Overlook Road to location.  
\_\_\_\_\_

c. Plans for improvement and/or maintenance of existing roads: None  
\_\_\_\_\_  
\_\_\_\_\_

d. Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Planned Access Roads:

- a. The maximum total disturbed width will be \_\_\_\_\_ feet.
- b. Maximum grades: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- c. Turnouts: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- d. Location (centerline): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- e. Drainage: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- f. Surface materials: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- g. Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed will be approved by the Area Manager in advance.

The access road will be rehabilitated or brought to Resource (Class III) Road Standards within sixty (60) days of dismantling of the drilling rig. If this time frame cannot be met, the Area Manager will be notified so that temporary drainage control can be installed along the access road.

3. Location of Existing Wells: None  
\_\_\_\_\_  
\_\_\_\_\_

4. Location of Tank Batteries and Production Facilities:

All permanent (onsite for six (6) months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earth tone color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six (6) months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors will be as follows:

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If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.

All loading lines and valves will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter along with any other sections occurring on the pad. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration reports will be submitted to the Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply:

All water needed for drilling purposes will be obtained from:  
Huntington Creek. I will contact Cottonwood Irrigation Co.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

A temporary water use permit for this operation will be obtained from the Utah State Engineer at Price, Utah.  
Water obtained on private land, or land administered by another agency, will require approval from the owner or agency for use of the land.

6. Source of Construction Material:

Pad construction material will be obtained from: \_\_\_\_\_  
Private Source.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3. Source of construction material (will/will not) be located on lease.

7. Methods of Handling Waste Disposal:

The reserve pit (will/~~will not~~) be lined: If determined during drilling that it is necessary then Bentonite will be used to seal the pit.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Three sides of the reserve pit will be fenced with Net Wire & barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

All trash must be contained and disposed of by: \_\_\_\_\_

Trash will be contained in a wire cage & will be taken to an approved land fill.  
\_\_\_\_\_  
\_\_\_\_\_

If burning is required, a permit will be obtained from the State Fire Warden None - Do not plan to burn any trash.  
\_\_\_\_\_

Produced waste water will be confined to a (lined/unlined) pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. Ancillary Facilities:

Camp facilities (will/~~will not~~) be required. They will be located: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

9. Well Site Layout:

The reserve pit will be located: on uphill side.  
\_\_\_\_\_  
\_\_\_\_\_

The top 8 inches of soil material will be removed from the location and stockpiled separately on North, South, and East side.

Topsoil along the access road will be reserved in place adjacent to the road.

Access to the well pad will be from: Wedge Overlook Road.  
\_\_\_\_\_  
\_\_\_\_\_

The trash pit will be located: None  
\_\_\_\_\_  
\_\_\_\_\_

10. Plans for Restoration of Surface:

Immediately upon completion of drilling, the location and surrounding area will be cleared of all remaining debris, materials, trash and junk not required for production. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Before any dirt work to restore the location takes place, the reserve pit must be completely dry. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The operator or his contractor (will/~~will not~~) notify the San Rafael Resource Area at Price, Utah forty-eight (48) hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.



All disturbed areas will be recontoured to the approximate natural contours. \_\_\_\_\_

The stockpiled topsoil will be evenly distributed over the disturbed areas. \_\_\_\_\_

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface. \_\_\_\_\_

Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage. .. \_\_\_\_\_

October - November Seeding. \_\_\_\_\_

The following seed mixture will be used: Indian Rice Grass -  
1#/acre - Needle & Thread 1#/acre - Winter Fat  $\frac{1}{2}$  #/acre -  
Mormon Tea  $\frac{1}{2}$  #/acre - Fourwing Salt Bush  $\frac{1}{2}$  # /acre and  
Blue Gramma 1#/acre. \_\_\_\_\_

The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed. \_\_\_\_\_

Additional Requirements: \_\_\_\_\_

11. Surface and Mineral Ownership:

Federal Government.

12. Other Information:

There will be no deviation from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

A cultural resource clearance (will/will not) be required before any construction begins. If any cultural resources are found during construction, all work will stop and the Area Manager will be notified.

This permit will be valid for a period of one (1) year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

13. Lessee's or Operator's Representative and Certification

Representative:

Name: William G. Bush  
Address: 619 Viewpoint Drive  
Grand Junction, Colorado 81506  
Phone No.: 303-243-0493

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by:

and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

October 24, 1987

Date

William G. Bush - Operator

Name and Title

PROPERTY DESCRIPTION:

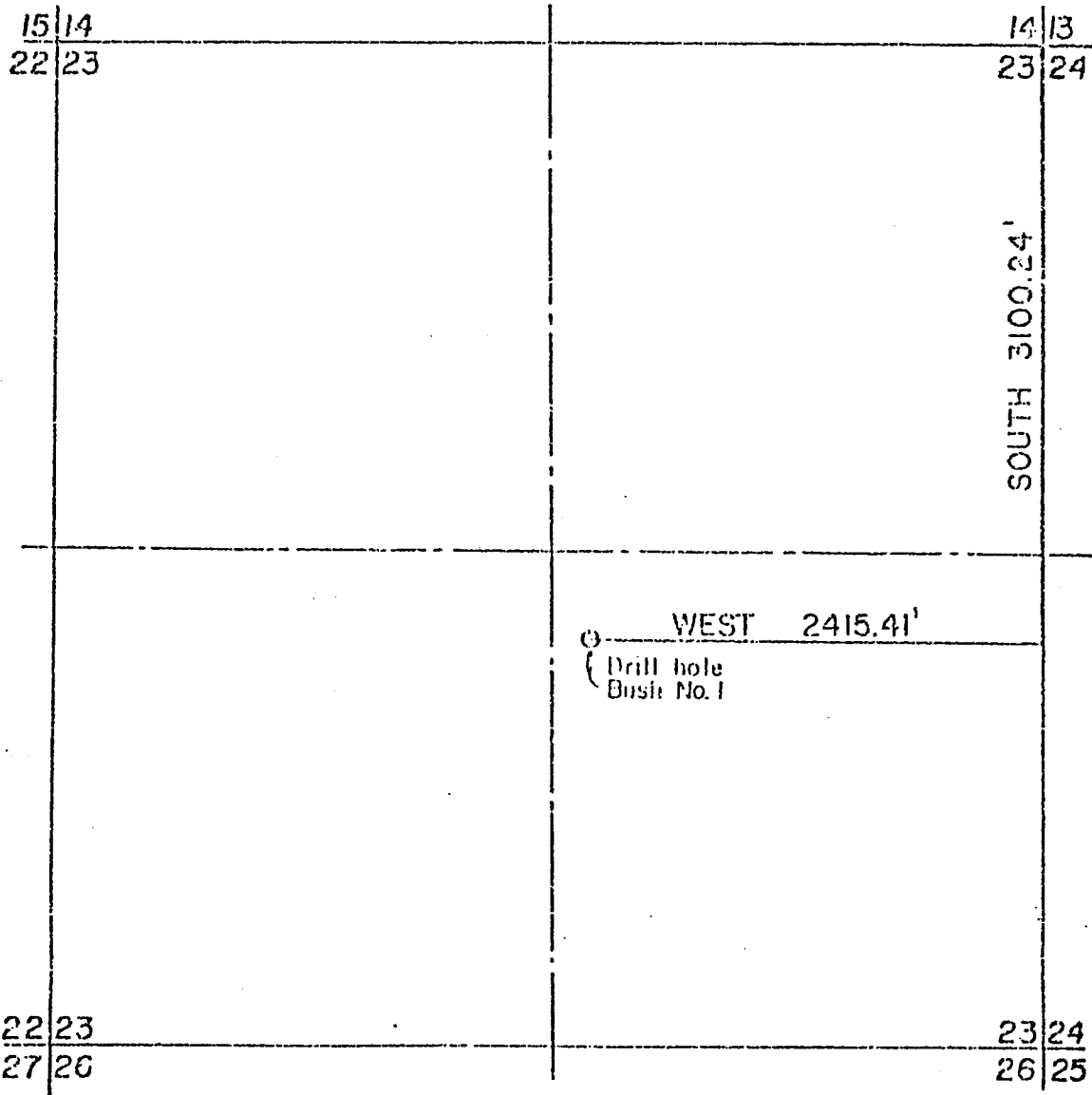
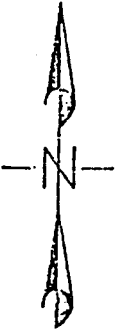
BUSH No. 1

Located at a point 3100.24 feet South  
and 2415.41 feet West of the NE corner  
of Section 23, T. 19 S., R. 10 E., SLB&M.

NOV 09 1989

CERTIFICATE

CRAIG E. JOHANSEN  
REGISTERED SURVEYOR,  
HOLDING CERTIFICATE NO. 5423, DO HEREBY CERTIFY THAT  
THE PLAT SHOWN HEREON HAS BEEN PREPARED FROM A  
FIELD SURVEY MADE UNDER MY DIRECTION AND CORRECTLY  
SHOWS THE DIMENSIONS AND MONUMENTS OF THE PROP-  
ERTY DESCRIBED TO THE BEST OF MY KNOWLEDGE AND  
BELIEF. FURTHERMORE, ENCROACHMENTS OF FENCES AND  
IMPROVEMENTS ARE SHOWN WITH THE FOLLOWING EX-  
CEPTIONS: *None*



SECTION	TOWNSHIP	RANGE
23	19 S	10 E
DATE	SCALE	BOOK
1-77	1"=1000'	

CRAIG E. JOHANSEN  
REGISTERED LAND SURVEYOR  
JOHANSEN & SONS, INC.  
GRAND JUNCTION, COLORADO

SURVEY FOR  
WILLIAM BUSH  
619 VIEWPOINT DRIVE  
GRAND JUNCTION, COLORADO

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRI-  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 42-R1425.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☐ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER Reenterer SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR William G. Bush

3. ADDRESS OF OPERATOR 619 Viewpoint Drive Grand Junction, Colorado 81506

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface 3100.24 ft. from North line & 2415.41 ft. from East line  
Section 23 - T 19 S - R 10 E.  
At proposed prod. zone API 43-015-30047 NWSE

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
12 Miles East of Castlegate, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2415'

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH 1600 Moenkopi

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5685 Ground

22. APPROX. DATE WORK WILL START\* as soon as permit is issued

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10"	8 5/8"	28 #	100'	30 sacks
6 1/4"	4 1/2"	9.5	T.D.	60 sacks.

I propose to reenter the well, drill out the cement plugs and test the Moenkopi Formation.  
I will use a Blow out preventor and rotating head.  
The only dirt work will be digging a mud pit next to the rig. ( 4ft. deep & 10 ft. long.)  
The existing road runs to the location.  
  
The well was plugged in 1977.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED William G. Bush (303) 243-0493 Operator DATE 10/24/89

(This space for Federal or State office use)

PERMIT NO. 43-015-30047

APPROVAL DATE

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE 12-6-89  
John R. Bay  
WELL SPACING: 60/15-3-3

William G. Bush  
Well No. Bush #1-A  
NWSE Sec. 23, T. 19 S., R. 10 E.  
Emery County, Utah  
Lease U-56040

CONDITIONS OF APPROVAL

1. Operator is approved to drill the subject well under the Bush #1 well permit. All conditions of approval from the Bush #1 are applicable during drilling, completion, production and plugging phases of the the Bush #1-A.
2. Operator shall be required to circulate cement to surface on both surface and production casing.

ONSITE

DATE: May 1, 1989

PARTICIPANTS:

TITLES:

Mervin Miles  
William G. Bush

BLM  
Operator

Your contact with the District Office is: Lynn Jackson

Office Phone: 801-259-6111

City: Moab State: Utah

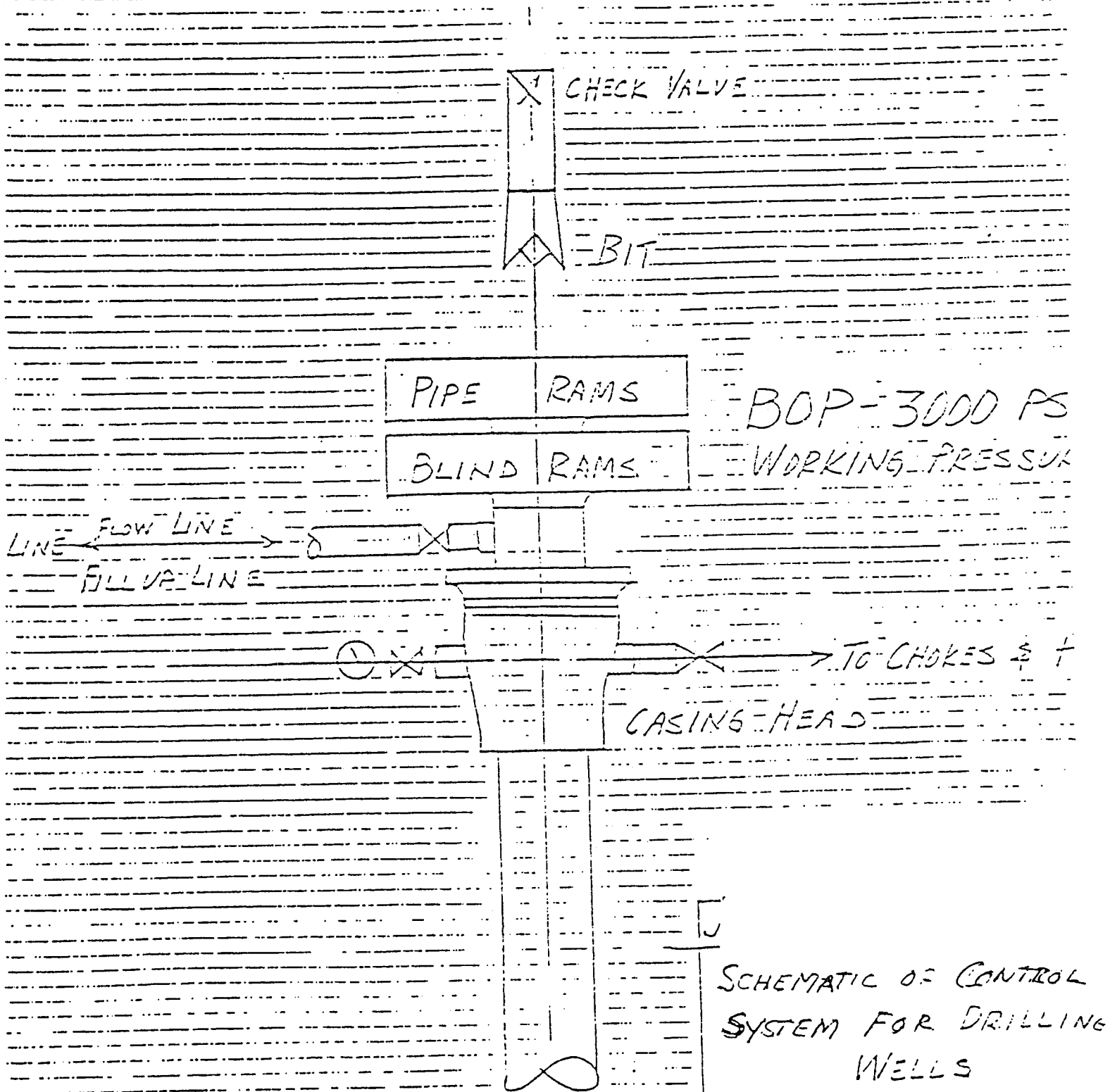
Resource Area Manager's address and contacts are:

Address: P.O. Drawer A3 - 900 North 7th. East - Price, Utah 84501

Your contact is: Mike Comminskey

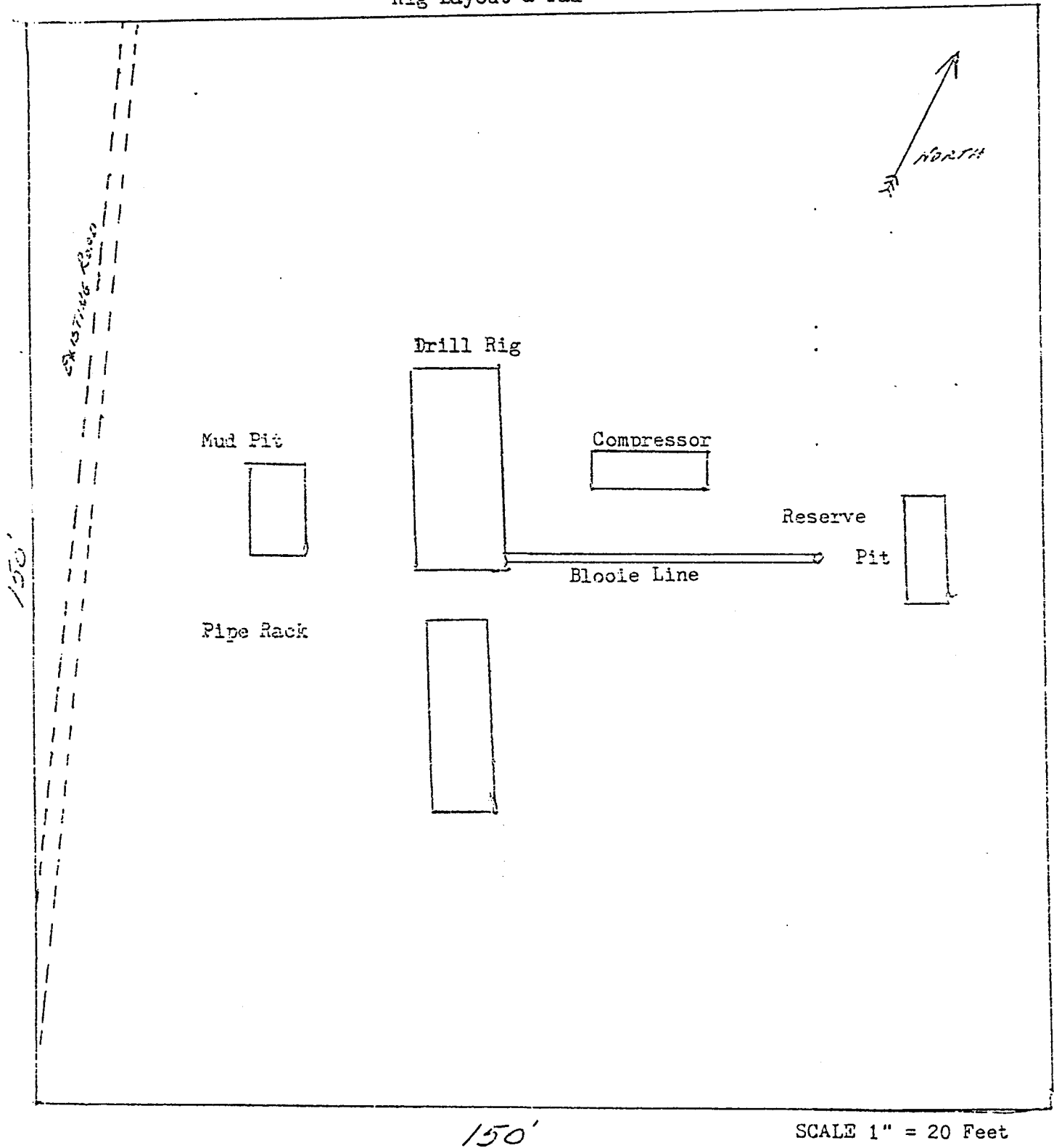
Office Phone: 801-637-4784

WILLIAM G. BUSH  
BUSH - GOV'T 1-





Rig Layout & Fad



INGEVILLE  
1,300

CASTLE DALE  
Pop 1,910

Buck Horn  
5,858'

BOB  
MILL  
WOLL

WELL

BUSH-GOVERNMENT I-

BUSH-GOVERNMENT

LITTLE GRAND TAMPON

BOTTLE NECK PEAK

VALLEY

BENCH

SAND

SWELL

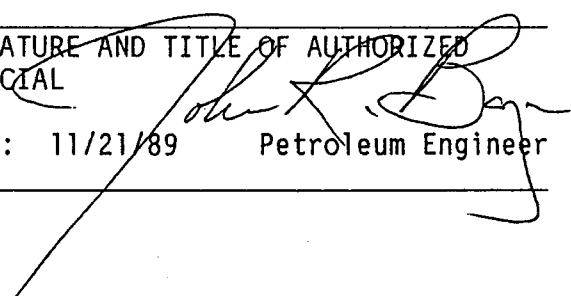
FAEL



Ferron

STATE ACTIONS

Mail to:  
RDCC Coordinator  
116 State Capitol  
Salt Lake City, Utah 84114

- 
1. ADMINISTERING STATE AGENCY  
OIL, GAS AND MINING  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:  
(assigned by State Clearinghouse)
- 
3. APPROXIMATE DATE PROJECT WILL START:  
As soon as possible
- 
4. AREAWIDE CLEARING HOUSE(s) RECEIVING STATE ACTIONS:  
(to be sent out by agency in block 1)  
Southeastern Utah Association of Governments
- 
5. TYPE OF ACTION: ☐ Lease ☒ Permit ☐ License ☐ Land Aquisition  
☐ Land Sale ☐ Land Exchange ☐ Other \_\_\_\_\_
- 
6. TITLE OF PROPOSED ACTION:  
Application for Permit to Drill
- 
7. DESCRIPTION:  
William G. Bush proposes to drill a wildcat well, the Bush #1, on federal lease number U-56040 in Emery County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S. Bureau of Land Management is the primary administrative agency in this case and must issue approval to drill jointly with DOGM before operations can commence.
- 
8. LAND AFFECTED (site location map required) (indicate county)  
NE/4, NW/4, Section 23, Township 19 South, Range 10 East, Emery County, Utah
- 
9. HAS THE LOCAL GOVERNMENT(s) BEEN CONTACTED?  
Unknown
- 
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:  
Degree of impact is based on the discovery of oil or gas in commercial quantities.
- 
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:  
Jim Thompson, Salt Lake City, 538-5340
- 
12. FOR FURTHER INFORMATION, CONTACT: 13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL  
John Baza  
PHONE: 538-5340
-   
DATE: 11/21/89 Petroleum Engineer
-

# SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENTS

HAROLD JACOBS  
Chairman

P. O. Drawer A1 • Price, Utah 84501 • Telephone 637-5444

WILLIAM D. HOWELL  
Executive Director

RECEIVED  
NOV 24 1989

## AREAWIDE CLEARINGHOUSE A-95 REVIEW

DIVISION OF  
OIL, GAS & MINING  
NOI \_\_\_ Preapp \_\_\_ App \_\_\_ State Plan \_\_\_ State Action X Subdivision \_\_\_ (ASP # 11-1116-3)

Other (indicate) \_\_\_\_\_ SAI Number \_\_\_\_\_

Applicant (Address, Phone Number):

Federal Funds:

Requested: \_\_\_\_\_

Oil, Gas and Mining  
355 West North Temple  
3 Triad center, Suite 350  
Salt Lake City, Utah 84180-1203

William Bush - Bush #1

Title:

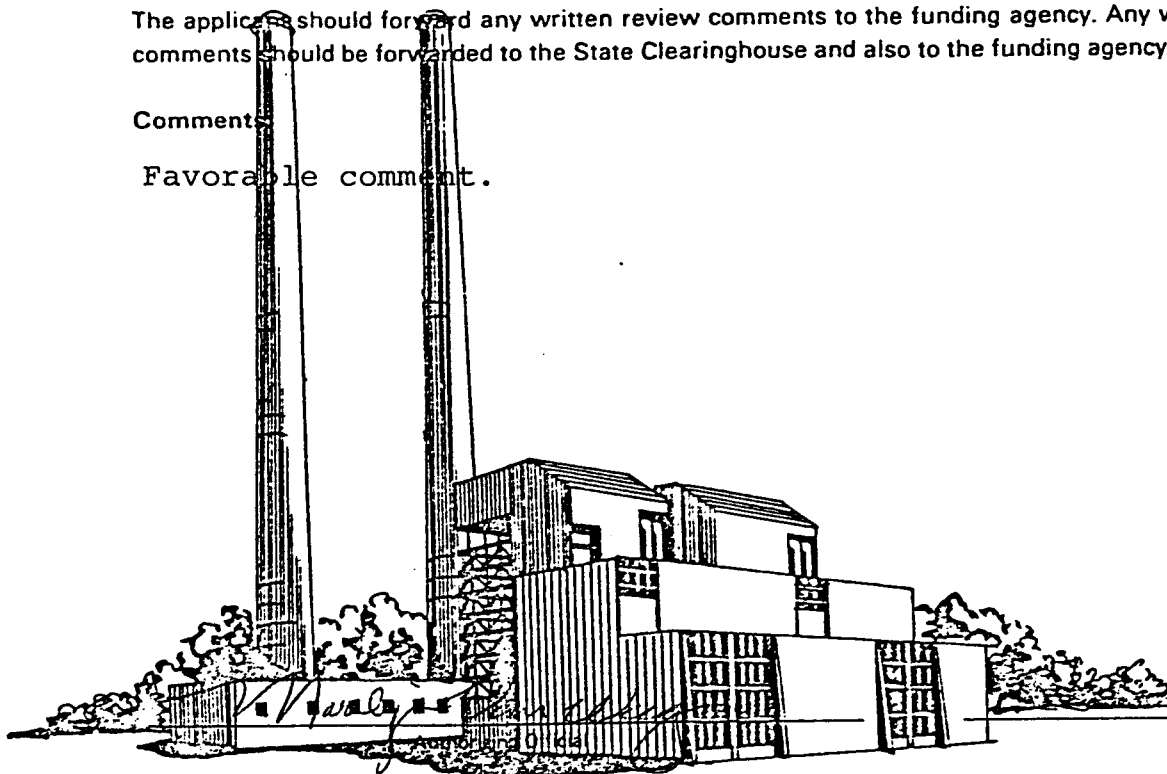
APPLICATION FOR PERMIT TO DRILL

- ☐ No comment
- ☒ See comments below
- ☐ No action taken because of insufficient information
- ☐ Please send your formal application to us for review. Your attendance is requested ☐

The applicant should forward any written review comments to the funding agency. Any written response to those comments should be forwarded to the State Clearinghouse and also to the funding agency.

Comments:

Favorable comment.



11-22-89

Date

REGIONAL CLEARINGHOUSE

NOV 24 1989

UNITED STATES  
DEPARTMENT OF THE INTERIOR

Division of

GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐ Reenter

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

SINGLE ZONE ☐

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

William G. Bush

3. ADDRESS OF OPERATOR

619 Viewpoint Drive Grand Junction, Co. 81506

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface 3100' from North Line & 2415' from East Line of Se. 23 NW/SE

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

15 Miles East of Castlegate, Utah

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)

2415

16. NO. OF ACRES IN LEASE

480

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

None

19. PROPOSED DEPTH

1600 ft.

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5682 Gr.

22. APPROX. DATE WORK WILL START\*

as soon as possible.

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10"	65/8"	28#	98'	30 Sacks.

I propose to reenter the well, drill out the cement plugs and test the Moenkopi Formation.

I will use a B.O.P. & Rotating Head.

The only dirt work will be digging a mud pit next to the rig. The existing road is next to the location.

The well was plugged in 1977.

*I request an exemption for the location from the General State spacing for Oil & Gas wells. I estimate acreage in a 400 ft radius from the well. Thank you.*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE

Operator

10/24/89

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.	U 56040
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME	
9. WELL NO.	Bush # 1 - A
10. FIELD AND POOL, OR WILDCAT	Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Sec. 23 T 19 S - R 10 E
12. COUNTY OR PARISH	Emery
13. STATE	Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER Reenter

2. NAME OF OPERATOR

William G. Bush

3. ADDRESS OF OPERATOR

619 Viewpoint Drive Grand Junction, Colorado 81508

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface 3100.24 ft. from North line & 2420 ft. from East line

At proposed prod. zone

Section 23 - T 19 S - R 10 E.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

12 Miles East of Castlegate, Utah

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

2415'

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED

TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

1600' moen top

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5685 Ground

22. APPROX. DATE WORK WILL START\*

as soon as permit is issued

23.

PROPOSED CASING AND CEMENTING PROGRAM

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

William G. Bush

TITLE

Operator

DATE

10/24/89'

(This space for Federal or State office use)

PERMIT NO.

43-015-30237

APPROVAL DATE

/s/ Kenneth V. Rhea

ACTING DISTRICT MANAGER

NOV 29 1989

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

FLARING OR VENTING OF  
GAS IS SUBJECT TO NTL 4-A  
Dated 1/1/80

CONDITIONS OF APPROVAL ATTACHED

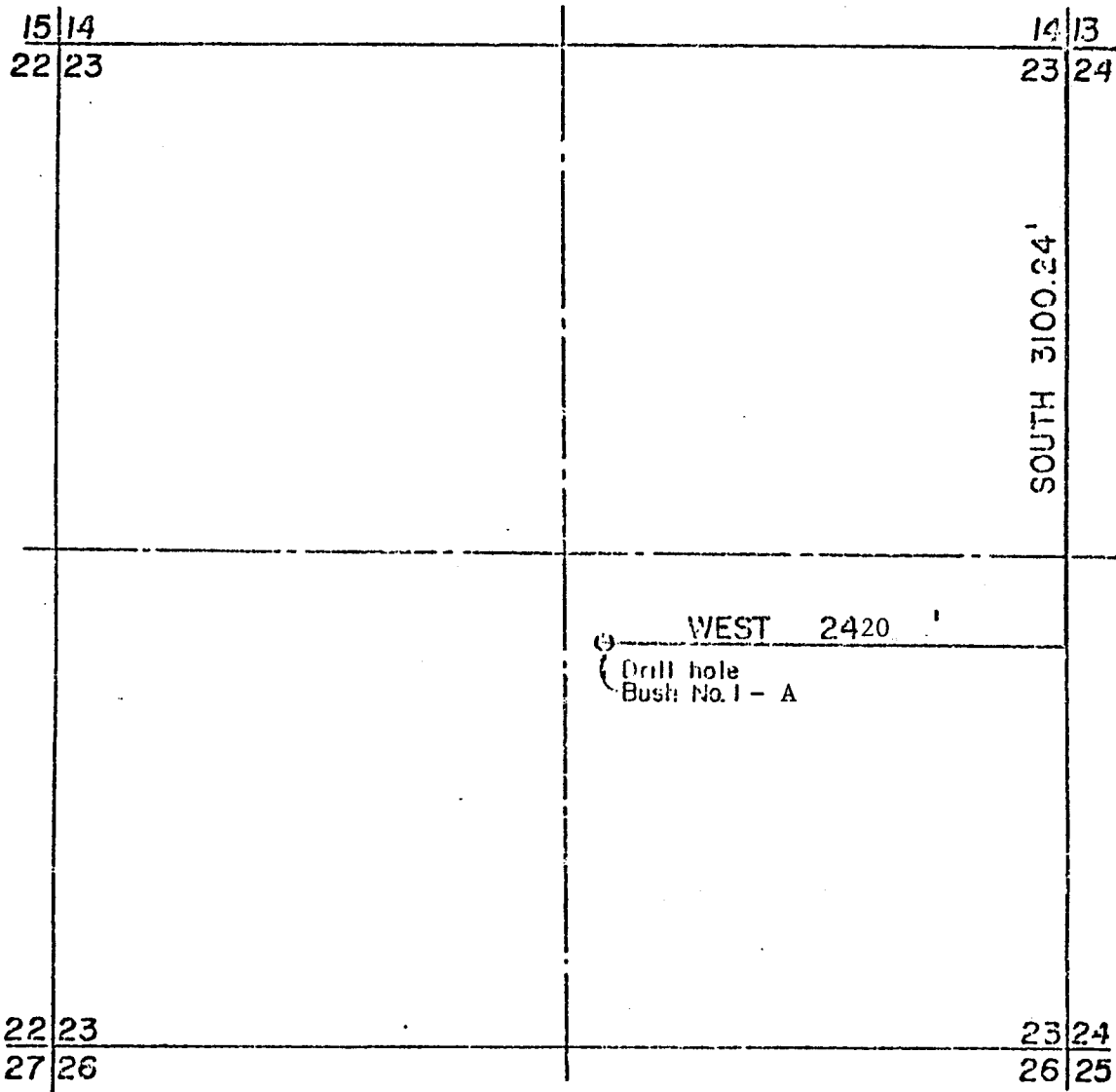
PROPERTY DESCRIPTION:

BUSH No. 1

Located at a point 3100.24 feet South  
and 2415.41 feet West of the NE corner  
of Section 23, T. 19 S., R. 10 E., SLB&M.

CERTIFICATE

*Craig E. Johansen*  
CRAIG E. JOHANSEN  
REGISTERED LAND SURVEYOR,  
HOLDING CERTIFICATE NO. 3826, DO HEREBY CERTIFY THAT  
THE PLAT SHOWN HEREON HAS BEEN PREPARED FROM A  
FIELD SURVEY MADE UNDER MY DIRECTION AND CORRECTLY  
SHOWS THE DIMENSIONS AND MONUMENTS OF THE PROP-  
ERTY DESCRIBED TO THE BEST OF MY KNOWLEDGE AND  
BELIEF. FURTHERMORE, ENCROACHMENTS OF FENCES AND  
IMPROVEMENTS ARE SHOWN WITH THE FOLLOWING EX-  
CEPTIONS: *none*



SECTION	TOWNSHIP	RANGE	SURVEY FOR
23	19 S	10 E	WILLIAM BUSH
DATE 1-77	SCALE 1"=1000'	CHECK BLOCK	619 VIEWPOINT DRIVE GRAND JUNCTION COLO.
CRAIG E. JOHANSEN REGISTERED LAND SURVEYOR JOHANSEN & DAHLGREN, INC. GRAND JUNCTION, UTAH			



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

December 6, 1989

William G. Bush  
619 Viewpoint Drive  
Grand Junction, Colorado 81506

Gentlemen:

Re: Bush #1 - NW SE Sec. 23, T. 19S, R. 10E - Emery County, Utah  
3100' FNL, 2415' FEL

Approval to re-enter the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules, subject to the following stipulation:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.



TABLE 1

NOTIFICATIONS

Notify Mike Kaminski of the San Rafael Resource Area, at  
(801) 637-4584 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

1 day prior to running and cementing surface casing;

1 day prior to pressure testing of surface casing.

Notify the Moab District Office, Branch of Fluid Minerals at (801) 259-6111  
for the following:

No well abandonment operations will be commenced without the prior  
approval of the District Manager. In the case of newly drilled dry  
holes, and in emergency situations, verbal approval can be obtained  
by calling the following individuals, in the order listed:

Dale Manchester, Petroleum Engineer      Office Phone: (801) 259-6111

Home Phone: (801) 259-6239

Eric Jones, Petroleum Engineer      Office Phone: (801) 259-6111

Home Phone: (801) 259-2214

If unable to reach the above individuals including weekends, holidays, or  
after hours, please call the following:

Lynn Jackson, Chief, Branch of Fluid Minerals

Office Phone: (801) 259-6111

Home Phone: (801) 259-7990

24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS.



STATE OF UTAH  
NATURAL RESOURCES  
Water Rights

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Robert L. Morgan, State Engineer

Southeastern Area • 453 S. Carbon Avenue • P.O. Box 718 • Price, UT 84501-0718 • 801-637-1303

December 7, 1989

RECEIVED  
DEC 11 1989  
DIVISION OF  
OIL, GAS & MINING

Frontier Drilling Inc.  
Attn: William G. Bush  
619 Viewpoint Drive  
Grand Junction, Colorado 81501

Re: Bush #1 Well  
SW4NE4 Section 23, T19S, R10E, SLB&M  
Emery County, Utah

Dear Mr. Bush:

This letter will serve as approval for work concerning the construction of the above noted well. The water which you propose to use is under the ownership of the Huntington-Cleveland Irrigation Company, and Mr. Varden Willson has indicated that the proper arrangements have been made. It is my understanding that the work should commence on approximately December 11, 1989, and be completed within one week. The location of the proposed well is more specifically defined as South 3100 ft. & West 2415 ft. from the NE Corner Section 23, T19S, R10E, SLB&M.

If you have any questions concerning this matter, or the involvement of this office, please contact me.

Sincerely,

Mark P. Page  
Area Engineer

cc: Division of Oil, Gas & Mining  
Attn: Lisha Romero  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Huntington-Cleveland Irrigation Company  
Attn: Varden Willson, Secretary  
P.O. Box 327  
Huntington, Utah 84528

William G. Bush  
Well No. Bush #1  
NWSE Sec. 23, T. 19 S., R. 10 E.  
Emery County, Utah  
Lease U-56040

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that William G. Bush is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by UT0756. (Principal - William G. Bush) as provided for in 43 CFR 3104.1.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

A. DRILLING PROGRAM

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, Onshore Oil and Gas Order No. 2 and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to the field representative to insure compliance.

STIPULATIONSEA Log No. N/ALease or  
Serial No. U-56040

Project Reentry - Drilling of Bush No. 1 (U-56040)  
Applicant William Bush Project T. 19 S., R. 10 E.  
619 Viewpoint Dr. Location Section 23, SLB&M  
Address Grand Junction, CO 81506 County Emery, Utah  
BLM Office San Rafael Resource Area Phone No. 801-637-4584

The following stipulations have been developed to mitigate adverse environmental impacts which may result from the action permitted by the accompanying decision.

1. The holder shall designate a representative who shall have the authority to act upon and to implement instructions from the authorized officer. The holder's representative shall be available for communication with the authorized officer within a reasonable time when construction or other surface-disturbing activities are underway.
2. The holder shall furnish and apply water or use other means satisfactory to the authorized officer for dust control.
3. All persons in the area who are associated with the project will be informed by the holder that they will be subject to prosecution for disturbing archaeological sites or collecting artifacts. If subsurface cultural material is exposed during construction, work at that spot will stop immediately and the BLM, San Rafael Resource Area Office, will be contacted (phone 801-637-4584). The holder will be responsible for the cost of evaluation of the discovery and proper mitigation measures. Any decision as to proper mitigation shall be made by the authorized officer after consulting with the holder.
4. No construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support construction equipment. If such equipment creates ruts in excess of two inches deep, the soil shall be deemed too wet to adequately support construction equipment.

Wang 1571D

UT-060-1790-3  
July 1986

B. Additional Requirements According To Onshore Oil and Gas Order No. 2

- 2000 psi BOP & BOPE:

Annular preventer, or double rams, or two rams with one being blind and one being a pipe ram

Kill line (2 inch minimum)

1 kill line valve (2 inch minimum)

1 choke line valve

2 chokes

Upper kelly cock valve with handle available

Safety valve and subs to fit all drill strings in use

Pressure gauge on choke manifold

2 inch minimum choke line

Fill-up line above the uppermost preventer

- If repair or replacement of the BOPE is required after testing, this work shall be performed prior to drilling out the casing shoe.
- When the BOPE cannot function to secure the hole, the hole shall be secured using cement, retrievable packer or bridge plug packer, bridge plug or other acceptable approved methods to assure safe well conditions.

- Choke Manifold Equipment:

All choke lines shall be straight lines unless turns use tee blocks or are targeted with running tees, and shall be anchored to prevent whip and reduce vibration.

All valves (except chokes) in the kill line, choke manifold and choke line shall be a type that does not restrict the flow (full opening) and that allows a straight through flow.

Pressure gauges in the well control system shall be a type designed for drilling fluid service.

- 2000 psi system - Accumulator Equipment:

Accumulator shall have sufficient capacity to close all BOP's and retain 200 psi above precharge. Nitrogen bottles that meet manufacturer's specifications may be used as the backup to the required independent power source.

Accumulator precharge pressure test: This test shall be conducted prior to connecting the closing unit to the BOP stack and at least once every 6 months.

Power for the closing unit pumps shall be available to the unit at all times so that the pumps shall automatically start when the closing unit manifold pressure has decreased to a pre-set level.

Each BOP closing unit shall be equipped with sufficient number and sizes of pumps so that, with the accumulator system isolated from service, the pumps shall be capable of opening the hydraulically-operated gate valve (if so equipped), plus closing the annular preventer on the smallest size drill pipe to be used within 2 minutes, and obtain a minimum of 200 psi. above specified accumulator precharge pressure.

A manual locking device (i.e., hand wheels) or automatic locking devices shall be installed on all systems of 2M or greater. A valve shall be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative.

- BOP Testing:

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing if BOP is not isolated from casing. Pressure tests on ram type preventers shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed off of pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test of BOP stack.

Annular BOP pressure tests shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above tests shall be performed:

\*\*When initially installed;

\*\*Whenever any seal subject to test pressure is broken;

\*\*Following related repairs; and

\*\*At 30 day intervals.

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s), the check valve shall be held open or the ball removed.

Pipe and blind rams shall be activated each trip, however this function need not be performed more than once a day

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

- Casing and Cementing:

All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

All casing, except the conductor casing, shall be new or reconditioned and tested used casing that meets or exceeds API standards for new casing.

The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.

All of the above described tests shall be recorded in the drilling log.

All indications of usable water shall be reported to the authorized officer prior to running the next string of before plugging orders are requested, whichever occurs first.

Surface casing shall have centralizers on at least the bottom three joints depending on the severity of hole inclination.

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70 percent of the minimum internal yield. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.

- Mud Program Requirements:

The characteristics, use and testing of drilling mud and the implementation of related drilling procedures shall be designed to prevent the loss of well control. Sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring well control.

- Record slow pump speed on daily drilling report after mudding up.

- Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume.

- A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

- All flare systems shall be designed to gather and burn all gas. The flare line(s) discharge shall be located not less than 100 feet from the well head, having straight lines unless turns are targeted with running tees, and shall be positioned downwind of the prevailing wind direction and shall be anchored. The flare system shall have an effective method for ignition. Where non-combustible gas is likely or expected to be vented, the system shall be provided supplemental fuel for ignition and to maintain a continuous flare.

- Drill Stem Testing Requirements:

Initial opening of drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the authorized officer. Closed chamber DSTs may be accomplished day or night.

- A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions, or displaced into the formation prior to pulling the test tool. This would involve providing some means for reverse circulation.

- Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

- All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.



- Special Drilling Operations:

In addition to the equipment already specified elsewhere in Onshore Order No. 2 , the following equipment shall be in place and operational during air/gas drilling:

- Properly lubricated and maintained rotating head;
- Spark arresters on engines or water cooled exhaust;
- Blooie line discharge 100 feet from well bore and securely anchored;
- Straight run on blooie line unless otherwise approved;
- Deduster equipment;
- All cuttings and circulating medium shall be directed into a reserve or blooie pit;
- Float valve above bit;
- Automatic igniter or continuous pilot light on the blooie line;
- Compressors located in the opposite direction from the blooie line a minimum of 100 feet from the well bore;
- Mud circulating equipment, water, and mud materials (does not have to be premixed) sufficient to maintain the capacity of the hole and circulating tanks or pits.

Page 2  
William G. Bush  
Bush #1  
December 6, 1989

7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-015-30047.

Sincerely,

A handwritten signature in dark ink, appearing to read 'R. J. Firth', with a stylized flourish at the end.

R. J. Firth  
Associate Director, Oil & Gas

lcr  
Enclosures  
cc: Bureau of Land Management  
D. R. Nielson  
J. L. Thompson  
WE14/3-4

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug a well.  
Use "APPLICATION FOR PERMIT—" for such purposes.)

RECEIVED  
DEC 13 1989

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	5. LEASE DESIGNATION AND SERIAL NO. U. 56040
2. NAME OF OPERATOR William G. Bush	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 619 VIEWPOINT DRIVE - GRAND JUNCTION CO. OIL, GAS & MINING 8.326	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface NW/SE 3100.24' FROM NORTH LINE 2420' 2415.41' FROM EAST LINE SECTION 23 - T19S - R10E.	8. FARM OR LEASE NAME
14. PERMIT NO. 43-01530047 Bush #1	9. WELL NO. BUSH #1-A
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5685 GROUND	10. FIELD AND POOL, OR WILDCAT WILDCAT
	11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA SEC 23 T19S - R10E
	12. COUNTY OR PARISH EMERY
	13. STATE UTAH

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input checked="" type="checkbox"/>	CHANGE PLANS	<input checked="" type="checkbox"/>
(Other)			

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

After reentering the well & starting to drill out. The cement plugs & pieces of cast iron was encountered & could not be penetrated so the well was plugged from 180 to 75 ft. with 18 sacks of cement plus 10 sacks at the surface.  
I need to spud the rig 5 feet to the West and start a new well. All conditions of approval will be complied with & no additional location work will be needed.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 12-28-89  
BY: John R. Bays  
WELL SPACING: R615-B-3  
API No. 43-015-30237

18. I hereby certify that the foregoing is true and correct

SIGNED William G. Bush TITLE Operator DATE Dec 4, 1989

(This space for Federal or State office use)

APPROVED BY /s/ Kenneth V. Rhea TITLE ACTING DISTRICT MANAGER DATE DEC 11 1989

Approved DMM  
12/5/89

\*See Instructions on Reverse Side

OPERATOR William Bush (No 1607) DATE 12-27-89

WELL NAME Bush # 1-A

SEC NWSE 23 T 19S R 10E COUNTY Emery

43-015-30237  
API NUMBER

Federal  
TYPE OF LEASE

CHECK OFF:

☐

PLAT

☒

BOND

☒

NEAREST  
WELL

☒

LEASE

☒

FIELD

☒

POTASH OR  
OIL SHALE

PROCESSING COMMENTS:

No other well within 920' (Bush #1 43-015-30047 PA'd 12-4-89)  
Water Permit OK! Huntington Cleveland Irrigation Co.  
RDCC 11-20-89 / Process 12-4-89 (Bush #17)  
Exception location request received 11-21-89

APPROVAL LETTER:

SPACING:

☐

R615-2-3

N/A

UNIT

☐

R615-3-2

☐

N/A

CAUSE NO. & DATE

☒

R615-3-3

STIPULATIONS:

0218T



Norman H. Bangerter  
Governor  
Dee C. Hansen  
Executive Director  
Dianne R. Nielson, Ph.D.  
Division Director

# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

December 28, 1989

William G. Bush  
619 Viewpoint Drive  
Grand Junction, Colorado 81506

Gentlemen:

Re: Bush #1-A - NW SE Sec. 23, T. 19S, R. 10E - Emery County, Utah  
3100' FNL, 2420' FEL

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules.

In addition, the following actions are necessary to fully comply with this approval:

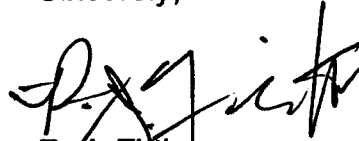
1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.

Page 2  
William G. Bush  
Bush #1-A  
December, 28, 1989

7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-015-30237.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. J. Firth', written over a horizontal line.

R. J. Firth  
Associate Director, Oil & Gas

lcr  
Enclosures  
cc: Bureau of Land Management  
D. R. Nielson  
J. L. Thompson  
WE14/7-8

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

U - 56040

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

U.S.A.

9. WELL NO.

Bush # 1-A

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY  
OR AREA Section 23

Range 10 East

Township 19 South

12. COUNTY OR  
PARISH  
Emery13. STATE  
Utah

1a. TYPE OF WELL:

OIL  
WELL ☐GAS  
WELL ☐DRY ☒

Other

1b. TYPE OF COMPLETION:

NEW  
WELL ☐WORK  
OVER ☐DEEP-  
EN ☐PLUG  
BACK ☐DIFF.  
RESRV. ☐

Other

2. NAME OF OPERATOR

William G. Bush

3. ADDRESS OF OPERATOR

619 Viewpoint Drive Grand Junction, Colorado 81506

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface NW $\frac{1}{4}$ SE $\frac{1}{4}$  - 3100' from North Line & 2420' from East Line

At top prod. interval reported below

At total depth

14. PERMIT NO.

43-015-30017

DATE ISSUED

12/5/89

15. DATE SPUNDED

12/8/89

16. DATE T.D. REACHED

12/14/89

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RSB, RT, GR, ETC.)\*  
5685 Ground

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD &amp; TVD

1500 T.D.

21. PLUG, BACK T.D., MD &amp; TVD

22. IF MULTIPLE COMPL.,  
HOW MANY\*23. INTERVALS  
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0 to 1500

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

25. WAS DIRECTIONAL  
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

None

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7"	23#	101'	9"	30 sacks	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

PA'd per telecon  
LCR / B. J. Bush  
1-90

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.\*

PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD ( <i>Flowing, gas lift, pumping—size and type of pump</i> )				WELL STATUS ( <i>Producing or shut-in</i> )		
DATE OF TEST		HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
				→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
		→						

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

William G. Bush

TITLE

Operator

DATE

12/19/89

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## 31. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS	
				NAME	MEAS. DEPTH TRUE VENT. DEPTH
				Carmel	0 to 180
				Nava Jo	180 to 610
				Kayenta	610 to 735
				Wingate	735 to 1175
				Chinle	1175 to 1450
				Moenkopi	1450 to 1500

Well was air drilled and no significant water zones were encountered.

OIL AND GAS	
DPN	DEF
JRB	CLH
DTS	SLS
1-TAS	
2-MICROFILM	
3-FILE	



REPORT OF WATER ENCOUNTERED DURING DRILLING - FORM 7

RECEIVED  
JAN 02 1989

1. Well name and number: BUSH # 1-A  
API number: 43-015-30047 30237
2. Well location: QQNW/SE section 23 township 19S range 10E county EMERY
3. Well operator: William G BUSH  
Address: 619 VIERPOINT DRIVE phone: 303-243-0493  
GRAND JUNCTION, CO. 81506
4. Drilling contractor: BOB BEEMAN  
Address: MOAB, UTAH phone: \_\_\_\_\_

OIL AND GAS	
DRN	RJF
JRB	1/ GLH ✓
DTS	SLS
	2-TAG
3. MICROFILM	✓
4. FILE	

5. Water encountered (continue on reverse side if necessary)

Depth		Volume (flow rate or head)	Quality (fresh or salty)
from	to		
200	210	TRACE	

6. Formation tops: Carmel 0 to 180 merapi - 1450 to 1500'  
NALGO 180 to 610  
Keokuk 610 to 735  
WINGATE 735 to 1175  
CHINLE 1175 to 1450

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I certify that this report is true and complete to the best of my knowledge.

Name William G. BUSH Signature William G. Bush  
Title Operator Date Dec. 26, 1989

Comments: